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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/931,347	08/16/2001	Bangalore Aswatha Nagaraj	13DV14035	2644
31316 7	590 06/09/2003			
MCNEES, WALLACE & NURICK			EXAMINER	
100 PINE STREET BOX 1166			MCNEIL, JENNIFER C	
HARRISBURG	G, PA 17108		ART UNIT	PAPER NUMBER
			1775	Q.
			DATE MAILED: 06/09/2003	, 0

Please find below and/or attached an Office communication concerning this application or proceeding.

			49-S
	Application No.	Applicant(s)	
	09/931,347	NAGARAJ ET AL	
Office Action Summary	Examin r	Art Unit	
	Jennifer McNeil	1775	
The MAILING DATE f this communication a Period for Reply	ppears on the cover si	neet with the correspondence at	Idress
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion  - Failure to reply within the set or extended period for reply will, by stat  - Any reply received by the Office later than three months after the ma earmed patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however reply within the statutory minimu od will apply and will expire SIX bute, cause the application to be	may a reply be timely filed  m of thirty (30) days will be considered time  (6) MONTHS from the mailing date of this ocome ABANDONED (35 U.S.C. § 133).	ly. communication.
1) Responsive to communication(s) filed on 1	<u>9 May 2003</u> .		
2a) ☐ This action is <b>FINAL</b> . 2b) ☐	This action is non-fina	<b>l.</b>	
3) Since this application is in condition for allo closed in accordance with the practice und	owance except for form	nal matters, prosecution as to t	he merits is
Disposition of Claims	el Ex parte Quaylo, R	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
4) Claim(s) 1-15 is/are pending in the applicat			
4a) Of the above claim(s) is/are withd	Irawn from considerati	on.	·
5)⊠ Claim(s) <u>9-15</u> is/are allowed.			
6)⊠ Claim(s) <u>1-3 and 6-8</u> is/are rejected.			
7)⊠ Claim(s) <u>4 and 5</u> is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirem	ent.	
Application Papers	:		
<ul><li>9) The specification is objected to by the Exam</li><li>10) The drawing(s) filed on 16 August 2001 is/ar</li></ul>		Tobiocted to by the Evaminer	
Applicant may not request that any objection to			<b>)</b> .
11) The proposed drawing correction filed on			
If approved, corrected drawings are required in			
12) The oath or declaration is objected to by the			
Priority under 35 U.S.C. §§ 119 and 120			
13) ☐ Acknowledgment is made of a claim for fore	eign priority under 35 l	J.S.C. § 119(a)-(d) or (f).	•
a) ☐ All b) ☐ Some * c) ☐ None of:			•
1. Certified copies of the priority docum	ents have been receiv	ed.	
2. Certified copies of the priority docum			
3. Copies of the certified copies of the papplication from the International	oriority documents hav Bureau (PCT Rule 17	e been received in this National (.2(a)).	al Stage
* See the attached detailed Office action for a			al application)
14) Acknowledgment is made of a claim for dom			ar application).
a) ☐ The translation of the foreign language 15)☐ Acknowledgment is made of a claim for dom			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper Not	) [7] (5	nterview Summary (PTO-413) Paper Notice of Informal Patent Application (F Other:	
LLC Detect and Tondometr Office			

#### **DETAILED ACTION**

This action is in response to the after-final response, Paper No. 7, filed May 19, 2003.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Schaeffer (US 6,066,405). Schaeffer teaches a nickel-based superalloy substrate including a coating region (34,36) comprising a single-phase composition of aluminum, platinum, nickel, and the diffused components of the substrate (col. 5, lines 61-65). A diffusion zone is immediately adjacent to the substrate (32) and the platinum-aluminum region (34, 36) (col. 5, lines 8-20).

Regarding claim 2, as stated above, the substrate is a nickel-based superalloy.

Regarding claim 3, the substrate may be a turbine engine component.

Regarding claims 6 and 7, the content of the platinum may be 18-45 wt%, and the content of the aluminum may be 18-24 wt% (col. 5, lines 50-60).

Regarding claim 8, a ceramic layer (38) may be provided over the coating.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are

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such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schaeffer (US 6,066,405). Schaeffer teaches a coating for a turbine component as discussed above, but does not give specific values of the platinum and aluminum content within applicant's range. It would have been obvious to one or ordinary skill in the art at the time of the invention to have selected the overlapping portion of the ranges disclosed by the reference because overlapping ranges have been held to be a prima facie case of obviousness (*In re Malagari*, 182 USPQ 549).

### Allowable Subject Matter

Claims 9-15 are allowed.

Claims 4 and 5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Response to Arguments

Applicant's arguments with respect to claims 1-3, and 6-8 have been considered but are moot in view of the new ground(s) of rejection. Applicant's comments in Paper No. 7 have overcome the rejections of Paper No. 6.

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#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer McNeil whose telephone number is 703-305-0553. The examiner can normally be reached on Monday through Friday, 9:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on 703-308-3822. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Jennifer McNeil Examiner Art Unit 1775

JCM June 6, 2003